

AMENDMENT

Serial Number: 09/475,614

Filing Date: December 30, 1999

Title: METHOD AND APPARATUS FOR CONTROL OF RECEIVE DATA

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Amendments to the Specification:

Please amend the Specification, as follows:

At page 44, please cancel the Abstract in its entirety, and replace the Abstract with the following new Abstract:

Abstract

An embodiment may include assigning received packets to threads for processing. The threads may be executed by microengines in a processor. Each respective microengine may employ respective local event signals and global signaling states. The respective local event signals may be local to respective threads executed by the respective microengine and may provide information on whether functions requested by the respective threads have completed. The global signaling states may permit an executing thread signal state to be broadcast to the microengines. The threads executed by the microengines may be able to branch based on the global signaling states, and may maintain thread capability information and port-to-thread assignments. If a processing exception concerning a particular packet occurs, the particular packet may be sent to a processor core for further processing. Functionality of the threads may be determined by microcode loaded via the processor core into the microengines.